

<110> INCYTE CORPORATION; CHAWLA, Narinder K.;
TANG, Y. Tom Tang; GRIFFIN, Jennifer A.;
YANG, Yonghong G.; RAMKUMAR, Jayalaxmi;
KHARE, Reena; RICHARDSON, Thomas W.;
BECHA, Shanya D.; TRAN, Uyen K.;
KABLE, Amy E.; SWARNAKAR, Anita;
WARREN, Bridget A.; ELLIOTT, Vicki S.;
MARQUIS, Joseph P.; HAFALIA, April J.A.

<120> CARBOHYDRATE-ASSOCIATED PROTEINS

<130> PF-1612 PCT

<140> To Be Assigned

<141> Herewith

<150> US 60/425,423

<151> 2002-11-12

<150> US 60/441,847

<151> 2003-01-21

<150> US 60/453,882

<151> 2003-03-10

<150> US 60/456,645

<151> 2003-03-20

<150> US 60/463,676

<151> 2003-04-16

<160> 40

<170> PERL Program

<210> 1

<211> 108

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 7521032CD1

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Ala	Ala	Ser	Tyr	Ser	Glu	Thr	Val	Thr	Cys	Glu	Asp	Ala	Gln	Lys
				20					25					30
Thr	Cys	Pro	Ala	Val	Ile	Ala	Cys	Ser	Ser	Pro	Gly	Ile	Asn	Gly
				35					40					45
Phe	Pro	Gly	Lys	Asp	Gly	Arg	Asp	Gly	Thr	Lys	Gly	Glu	Lys	Gly
				50					55					60
Glu	Pro	Gly	Gln	Gly	Leu	Arg	Gly	Leu	Gln	Gly	Pro	Pro	Gly	Lys
				65					70					75
Leu	Gly	Pro	Pro	Gly	Asn	Pro	Gly	Pro	Ser	Gly	Ser	Pro	Gly	Pro
				80					85					90
Lys	Gly	Gln	Lys	Gly	Asp	Pro	Gly	Lys	Ser	Pro	Gly	Lys	Asp	Pro
				95					100					105
Ser	Lys	Val												

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Ala	Pro	Tyr	His	Thr	Gly	Asp	Pro	Gln	Leu	Asp	Thr	Ala	Ile	Gly
				20					25					30
Gln	Trp	Leu	Arg	Trp	Asp	Lys	Asn	Pro	Lys	Thr	Lys	Glu	Gln	Ile
				35					40					45
Glu	Asn	Leu	Leu	Arg	Asn	Gly	Met	Asn	Lys	Glu	Leu	Arg	Asp	Arg
				50					55					60
Leu	Cys	Cys	Arg	Met	Thr	Phe	Gly	Thr	Ala	Gly	Leu	Arg	Ser	Ala
				65					70					75
Met	Gly	Ala	Gly	Phe	Cys	Tyr	Ile	Asn	Asp	Leu	Thr	Val	Ile	Gln
				80					85					90
Ser	Thr	Gln	Gly	Met	Tyr	Lys	Tyr	Leu	Glu	Arg	Cys	Phe	Ser	Asp
				95					100					105
Phe	Lys	Gln	Arg	Gly	Phe	Val	Val	Gly	Tyr	Asp	Thr	Arg	Gly	Gln
				110					115					120
Val	Thr	Ser	Ser	Cys	Ser	Ser	Gln	Arg	Leu	Ala	Lys	Leu	Thr	Ala
				125					130					135
Ala	Val	Leu	Leu	Ala	Lys	Asp	Val	Pro	Val	Tyr	Leu	Phe	Ser	Arg
				140					145					150
Tyr	Val	Pro	Thr	Pro	Phe	Val	Pro	Tyr	Ala	Val	Gln	Lys	Leu	Lys
				155					160					165
Ala	Val	Ala	Gly	Val	Met	Ile	Thr	Ala	Ser	His	Asn	Arg	Lys	Glu
				170					175					180
Asp	Asn	Gly	Tyr	Lys	Val	Tyr	Trp	Glu	Thr	Gly	Ala	Gln	Ile	Thr
				185					190					195
Ser	Pro	His	Asp	Lys	Glu	Ile	Leu	Lys	Cys	Ile	Glu	Glu	Cys	Val
				200					205					210
Glu	Pro	Trp	Asn	Gly	Ser	Trp	Asn	Asp	Asn	Leu	Val	Asp	Thr	Ser
				215					220					225
Pro	Leu	Lys	Arg	Asp	Pro	Leu	Gln	Asp	Ile	Cys	Arg	Arg	Tyr	Met
				230					235					240
Glu	Asp	Leu	Lys	Lys	Ile	Cys	Phe	Tyr	Arg	Glu	Leu	Asn	Ser	Lys
				245					250					255
Thr	Thr	Leu	Lys	Phe	Val	His	Thr	Ser	Phe	His	Gly	Val	Gly	His
				260					265					270
Asp	Tyr	Val	Gln	Leu	Ala	Phe	Lys	Val	Phe	Gly	Phe	Lys	Pro	Pro
				275					280					285
Ile	Pro	Val	Pro	Glu	Gln	Lys	Asp	Pro	Asp	Pro	Asp	Phe	Ser	Thr
				290					295					300
Val	Lys	Cys	Pro	Asn	Pro	Glu	Glu	Gly	Glu	Ser	Val	Leu	Glu	Leu
				305					310					315
Ser	Leu	Arg	Leu	Ala	Glu	Lys	Glu	Asn	Ala	Arg	Val	Val	Leu	Ala
				320					325					330
Thr	Asp	Pro	Asp	Ala	Asp	Arg	Leu	Ala	Ala	Ala	Glu	Leu	Gln	Glu
				335					340					345
Asn	Gly	Cys	Trp	Lys	Val	Phe	Thr	Gly	Asn	Glu	Leu	Ala	Ala	Leu
				350					355					360
Phe	Gly	Trp	Trp	Met	Phe	Asp	Cys	Trp	Lys	Lys	Asn	Lys	Ser	Arg
				365					370					375
Asn	Ala	Asp	Val	Lys	Asn	Val	Tyr	Met	Leu	Ala	Thr	Thr	Val	Ser
				380					385					390
Ser	Lys	Ile	Leu	Lys	Ala	Ile	Ala	Leu	Lys	Glu	Gly	Phe	His	Phe
				395					400					405
Glu	Glu	Thr	Leu	Pro	Gly	Phe	Lys	Trp	Ile	Gly	Ser	Arg	Ile	Ile

Asp Leu Leu Glu	410	Asn Gly Lys Glu Val	415	Leu Phe Ala Phe Glu Glu	420
Ser Ile Gly Phe	425	Leu Cys Gly Thr Ser	430	Val Leu Asp Lys Asp Gly	435
Val Ser Ala Ala	440	Val Val Val Ala Glu	445	Met Ala Ser Tyr Leu Glu	450
Thr Met Asn Ile	455	Thr Leu Lys Gln Gln	460	Leu Val Lys Val Tyr Glu	465
Lys Tyr Gly Tyr	470	His Ile Ser Lys Thr	475	Ser Tyr Phe Leu Cys Tyr	480
Glu Pro Pro Thr	485	Ile Lys Ser Ile Phe	490	Glu Arg Leu Arg Asn Phe	495
Asp Ser Pro Lys	500	Glu Tyr Pro Lys Phe	505	Cys Gly Thr Phe Ala Ile	510
Leu His Val Arg	515	Asp Ile Thr Thr Gly	520	Tyr Asp Ser Ser Gln Pro	525
Asn Lys Lys Ser	530	Val Leu Pro Val Ser	535	Lys Asn Ser Gln Met Ile	540
Thr Phe Thr Phe	545	Gln Asn Gly Cys Val	550	Ala Thr Leu Arg Thr Ser	555
Gly Thr Glu Pro	560	Lys Ile Lys Tyr Tyr	565	Ala Glu Met Cys Ala Ser	570
Pro Asp Gln Ser	575	Asp Thr Ala Leu Leu	580	Glu Glu Glu Leu Lys Lys	585
Leu Ile Asp Ala	590	Leu Ile Glu Asn Phe	595	Leu Gln Pro Ser Lys Asn	600
Gly Leu Ile Trp	605	Arg Ser Val	610		615
	620				

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 <213> Homo sapiens

<220>
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Met Ala Gly Cys Val	Pro Leu Leu Gln	Gly Leu Val Leu Val Leu
1	5	10
Ala Leu His Arg Val	Glu Pro Ser Val	Phe Leu Pro Ala Ser Lys
20	25	30
Ala Asn Asp Val Leu	Val Arg Trp Lys	Arg Ala Gly Ser Tyr Leu
35	40	45
Leu Glu Glu Leu Phe	Glu Gly Asn Leu	Glu Lys Glu Cys Tyr Glu
50	55	60
Glu Thr Cys Val Tyr	Glu Glu Ala Arg	Glu Val Phe Glu Asn Glu
65	70	75
Val Val Thr Asp Glu	Phe Trp Arg Arg	Tyr Lys Gly Gly Ser Pro
80	85	90
Cys Ile Ser Gln Pro	Cys Leu His Asn	Gly Ser Cys Gln Asp Ser
95	100	105
Ile Trp Gly Tyr Thr	Cys Thr Cys Ser	Pro Gly Tyr Glu Gly Ser
110	115	120
Asn Cys Glu Leu Ala	Lys Asn Glu Cys	His Pro Glu Arg Thr Asp
125	130	135
Gly Cys Gln His Phe	Cys Leu Pro Gly	Gln Glu Ser Tyr Thr Cys
140	145	150
Ser Cys Ala Gln Gly	Tyr Arg Leu Gly	Glu Asp His Lys Gln Cys
155	160	165
Val Pro His Asp Gln	Cys Ala Cys Gly	Val Leu Thr Ser Glu Lys

	170		175		180
Arg Ala Pro Asp	Leu Gln Asp Leu Pro	Trp Gln Asn Glu Pro	Arg		
	185		190		195
Pro Ala Asp Asp	Gln Asp Asn Ala Arg	Pro Cys Ala His Ala	Val		
	200		205		210

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 Met Ala Lys Asp Phe Gln Asp Ile Gln Gln Leu Ser Ser Glu Glu
 1 5 10 15
 Asn Asp His Pro Phe His Gln Gly Ala Gln Leu Gln Ala Glu Leu
 20 25 30
 Arg Ser Leu Lys Glu Ala Phe Ser Asn Phe Ser Ser Ser Thr Leu
 35 40 45
 Thr Glu Val Gln Ala Ile Ser Thr His Gly Gly Ser Val Gly Asp
 50 55 60
 Lys Ile Thr Ser Leu Gly Ala Lys Leu Glu Lys Gln Gln Gln Asp
 65 70 75
 Leu Lys Ala Asp His Asp Ala Leu Leu Phe His Leu Lys His Phe
 80 85 90
 Pro Val Asp Leu Arg Phe Val Ala Cys Gln Met Glu Leu Leu His
 95 100 105
 Ser Asn Gly Ser Gln Arg Thr Cys Cys Pro Val Asn Trp Val Glu
 110 115 120
 His Gln Gly Ser Cys Tyr Trp Phe Ser His Ser Gly Lys Ala Trp
 125 130 135
 Ala Glu Ala Glu Lys Tyr Cys Gln Leu Glu Asn Ala His Leu Val
 140 145 150
 Val Ile Asn Ser Trp Glu Glu Gln Lys Phe Ile Val Gln His Thr
 155 160 165
 Asn Pro Phe Asn Thr Trp Ile Gly Leu Thr Asp Ser Asp Gly Ser
 170 175 180
 Trp Lys Trp Val Asp Gly Thr Asp Tyr Arg His Asn Tyr Lys Asn
 185 190 195
 Trp Ala Val Thr Gln Pro Asp Asn Trp His Gly His Glu Leu Gly
 200 205 210
 Gly Ser Glu Asp Cys Val Glu Val Gln Pro Asp Gly Arg Trp Asn
 215 220 225
 Asp Asp Phe Cys Leu Gln Val Tyr Arg Trp Val Cys Gly Lys Arg
 230 235 240
 Arg Asn Ala Thr Gly Glu Val Ala
 245

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 Met Ala Gly Cys Val Pro Leu Leu Gln Gly Leu Val Leu Val Leu

1	5	10	15
Ala Leu His Arg Val	Glu Pro Ser Val	Phe Leu Pro Ala Ser	Lys
20	25	30	
Ala Asn Asp Val Leu	Val Arg Trp Lys	Arg Ala Gly Ser Tyr	Leu
35	40	45	
Leu Glu Glu Leu Phe	Glu Gly Asn Leu	Glu Lys Glu Cys Tyr	Glu
50	55	60	
Glu Ile Cys Val Tyr	Glu Glu Ala Arg	Glu Val Phe Glu Asn	Glu
65	70	75	
Val Val Thr Asp Glu	Phe Trp Arg Arg	Tyr Lys Gly Lys Trp	Phe
80	85	90	
Pro Ser Ser Pro Gln	Lys Tyr		
95			

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<220>
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Met Gly Arg Ile Gly	Ile Ser Cys Leu Phe Pro Ala Ser Trp His
1	5 10 15
Phe Ser Ile Ser Pro	Val Gly Cys Pro Arg Ile Leu Asn Thr Asn
20	25 30
Leu Arg Gln Ile Met	Val Ile Ser Val Leu Ala Ala Ala Val Ser
35	40 45
Leu Leu Tyr Phe Ser	Val Val Ile Ile Arg Asn Lys Tyr Gly Arg
50	55 60
Leu Thr Arg Asp Lys	Lys Phe Gln Arg Tyr Leu Ala Arg Val Thr
65	70 75
Asp Ile Glu Ala Thr	Asp Thr Asn Asn Pro Asn Val Ser Tyr Gly
80	85 90
Ile Val Val Asp Cys	Gly Ser Ser Gly Ser Arg Val Phe Val Tyr
95	100 105
Cys Trp Pro Arg His	Asn Gly Asn Pro His Asp Leu Leu Asp Ile
110	115 120
Arg Gln Met Arg Asp	Lys Asn Arg Lys Pro Val Val Met Lys Ile
125	130 135
Lys Pro Gly Ile Ser	Glu Phe Ala Thr Ser Pro Glu Lys Val Ser
140	145 150
Asp Tyr Ile Ser Pro	Leu Leu Asn Phe Ala Ala Glu His Val Pro
155	160 165
Arg Ala Lys His Lys	Glu Thr Pro Leu Tyr Ile Leu Cys Thr Ala
170	175 180
Gly Met Arg Ile Leu	Pro Glu Ser Gln Gln Lys Ala Ile Leu Glu
185	190 195
Asp Leu Leu Thr Asp	Ile Pro Val His Phe Asp Phe Leu Phe Ser
200	205 210
Asp Ser His Ala Glu	Val Ile Ser Gly Lys Gln Glu Gly Val Tyr
215	220 225
Ala Trp Ile Gly Ile	Asn Phe Val Leu Gly Arg Phe Glu His Ile
230	235 240
Glu Asp Asp Asp Glu	Ala Val Val Glu Val Asn Ile Pro Gly Ser
245	250 255
Glu Ser Ser Glu Ala	Ile Val Arg Lys Arg Thr Ala Gly Ile Leu
260	265 270
Asp Met Gly Gly Val	Ser Thr Gln Ile Ala Tyr Glu Val Pro Lys
275	280 285
Thr Glu Glu Val Ala	Lys Asn Leu Leu Ala Glu Phe Asn Leu Gly

	290		295		300
Cys Asp Val His	Gln Thr Glu His Val	Tyr Arg Val Tyr Val	Ala		
	305		310		315
Thr Phe Leu Gly	Phe Gly Gly Asn Ala	Ala Arg Gln Arg Tyr	Glu		
	320		325		330
Asp Arg Ile Phe	Ala Asn Thr Ile Gln	Lys Asn Arg Leu Leu	Gly		
	335		340		345
Lys Gln Thr Gly	Leu Thr Pro Asp Met	Pro Tyr Leu Asp Pro	Cys		
	350		355		360
Leu Pro Leu Asp	Ile Lys Asp Glu Ile	Gln Gln Asn Gly Gln	Thr		
	365		370		375
Ile Tyr Leu Arg	Gly Thr Gly Asp Phe	Asp Leu Cys Arg Glu	Thr		
	380		385		390
Ile Gln Pro Phe	Met Asn Lys Thr Asn	Glu Thr Gln Thr Ser	Leu		
	395		400		405
Asn Gly Val Tyr	Gln Pro Pro Ile His	Phe Gln Asn Ser Glu	Phe		
	410		415		420
Tyr Gly Phe Ser	Glu Phe Tyr Tyr Cys	Thr Glu Asp Val Leu	Arg		
	425		430		435
Met Gly Gly Asp	Tyr Asn Ala Ala Lys	Phe Thr Lys Ala Ala	Lys		
	440		445		450
Asp Tyr Cys Ala	Thr Lys Trp Ser Ile	Leu Arg Glu Arg Phe	Asp		
	455		460		465
Arg Gly Leu Tyr	Ala Ser His Ala Asp	Leu His Arg Leu Lys			
	470		475		

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<211> 222

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 7524922CD1

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Val Ser Lys Val	Pro Ser Ser Leu Ser	Gln Glu Gln Ser Glu Gln		
	20	25	30	
Asp Ala Ile Tyr	Gln Asn Leu Thr Gln	Leu Lys Ala Ala Val Gly		
	35	40	45	
Glu Leu Ser Glu	Lys Ser Lys Leu Gln	Glu Ile Tyr Gln Glu Leu		
	50	55	60	
Thr Gln Leu Lys	Ala Ala Val Gly Glu	Leu Pro Glu Lys Ser Lys		
	65	70	75	
Leu Gln Glu Ile	Tyr Gln Glu Leu Thr	Arg Leu Lys Ala Ala Val		
	80	85	90	
Gly Glu Leu Pro	Glu Lys Ser Lys Leu	Gln Glu Ile Tyr Gln Glu		
	95	100	105	
Leu Thr Arg Leu	Lys Ala Ala Val Gly	Glu Leu Pro Glu Lys Ser		
	110	115	120	
Lys Leu Gln Glu	Ile Tyr Gln Glu Leu	Thr Gln Leu Lys Ala Ala		
	125	130	135	
Val Gly Glu Leu	Pro Asp Gln Ser Lys	Gln Gln Gln Ile Tyr Gln		
	140	145	150	
Glu Leu Thr Asp	Leu Lys Thr Ala Phe	Glu Arg Leu Cys Arg His		
	155	160	165	
Cys Pro Lys Asp	Trp Thr Phe Phe Gln	Gly Asn Cys Tyr Phe Met		
	170	175	180	
Ser Asn Ser Gln	Arg Asn Trp His Asn	Ser Val Thr Ala Cys Gln		
	185	190	195	
Glu Val Arg Ala	Gln Leu Val Val Ile	Lys Thr Ala Glu Glu Gln		

	200		205	210
Leu Pro Ala Val	Leu Glu Gln Trp Arg	Thr Gln Gln		
	215	220		

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<400> 8

Met	Ser	Asp	Ser	Lys	Glu	Pro	Arg	Val	Gln	Gln	Leu	Gly	Leu	Leu
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Glu	Asp	Pro	Thr	Thr	Ser	Gly	Ile	Arg	Leu	Phe	Pro	Arg	Asp	Phe
				20					25					30
Gln	Phe	Gln	Gln	Ile	His	Gly	His	Lys	Ser	Ser	Thr	Val	Ser	Lys
				35					40					45
Val	Pro	Ser	Ser	Leu	Ser	Gln	Glu	Gln	Ser	Glu	Gln	Asp	Ala	Ile
				50					55					60
Tyr	Gln	Asn	Leu	Thr	Gln	Leu	Lys	Ala	Ala	Val	Gly	Glu	Leu	Ser
				65					70					75
Glu	Lys	Ser	Lys	Leu	Gln	Glu	Ile	Tyr	Gln	Glu	Leu	Thr	Gln	Leu
				80					85					90
Lys	Ala	Ala	Val	Gly	Glu	Leu	Pro	Glu	Lys	Ser	Lys	Leu	Gln	Glu
				95					100					105
Ile	Tyr	Gln	Glu	Leu	Thr	Arg	Leu	Lys	Ala	Ala	Val	Gly	Glu	Leu
				110					115					120
Pro	Glu	Lys	Ser	Lys	Leu	Gln	Glu	Ile	Tyr	Gln	Glu	Leu	Thr	Arg
				125					130					135
Leu	Lys	Ala	Ala	Val	Gly	Glu	Leu	Pro	Glu	Lys	Ser	Lys	Leu	Gln
				140					145					150
Glu	Ile	Tyr	Gln	Glu	Leu	Thr	Arg	Leu	Lys	Ala	Ala	Val	Gly	Glu
				155					160					165
Leu	Pro	Glu	Lys	Ser	Lys	Leu	Gln	Glu	Ile	Tyr	Gln	Glu	Leu	Thr
				170					175					180
Glu	Leu	Lys	Ala	Ala	Val	Gly	Glu	Leu	Pro	Glu	Lys	Ser	Lys	Leu
				185					190					195
Gln	Glu	Ile	Tyr	Gln	Glu	Leu	Thr	Gln	Leu	Lys	Ala	Ala	Val	Gly
				200					205					210
Glu	Leu	Pro	Asp	Gln	Ser	Lys	Gln	Gln	Gln	Ile	Tyr	Gln	Glu	Leu
				215					220					225
Thr	Asp	Leu	Lys	Thr	Ala	Phe	Glu	Arg	Leu	Cys	Arg	His	Cys	Pro
				230					235					240
Lys	Asp	Trp	Thr	Phe	Phe	Gln	Gly	Asn	Cys	Tyr	Phe	Met	Ser	Asn
				245					250					255
Ser	Gln	Arg	Asn	Trp	His	Asp	Ser	Val	Thr	Ala	Cys	Gln	Glu	Val
				260					265					270
Arg	Ala	Gln	Leu	Val	Val	Ile	Lys	Thr	Ala	Glu	Glu	Gln	Asn	Phe
				275					280					285
Leu	Gln	Leu	Gln	Thr	Ser	Arg	Ser	Asn	Arg	Phe	Ser	Trp	Met	Gly
				290					295					300
Leu	Ser	Asp	Leu	Asn	Gln	Glu	Gly	Thr	Trp	Gln	Trp	Val	Asp	Gly
				305					310					315
Ser	Pro	Leu	Ser	Pro	Ser	Phe	Gln	Arg	Tyr	Trp	Asn	Ser	Gly	Glu
				320					325					330
Pro	Asn	Asn	Ser	Gly	Asn	Glu	Asp	Cys	Ala	Glu	Phe	Ser	Gly	Ser
				335					340					345
Gly	Trp	Asn	Asp	Asn	Arg	Cys	Asp	Val	Asp	Asn	Tyr	Trp	Ile	Cys
				350					355					360
Lys	Lys	Pro	Ala	Pro	Arg	Phe	Arg	Asp	Glu					

365

370

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 Met Asn Ser Ser Lys Ser Ser Glu Thr Gln Cys Thr Glu Arg Gly
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 Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
 20 25 30
 Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
 35 40 45
 Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
 50 55 60
 Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Ala Ser
 65 70 75
 Gly Met

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<220>
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 Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu
 20 25 30
 Arg Arg Phe Glu Tyr Lys Leu Ser Phe Lys Gly Pro Arg Leu Ala
 35 40 45
 Leu Pro Gly Ala Gly Ile Pro Phe Trp Ser His His Gly Asp Ala
 50 55 60
 Ile Leu Gly Leu Glu Glu Val Arg Leu Thr Pro Ser Met Arg Asn
 65 70 75
 Arg Ser Gly Ala Val Trp Ser Arg Ala Ser Val Pro Phe Ser Ala
 80 85 90
 Trp Glu Val Glu Val Gln Met Arg Val Thr Gly Leu Gly Arg Arg
 95 100 105
 Gly Ala Gln Gly Met Ala Val Trp Tyr Thr Arg Gly Arg Gly His
 110 115 120
 Val Gly Ser Val Leu Gly Gly Leu Ala Ser Trp Asp Gly Ile Gly
 125 130 135
 Ile Phe Phe Asp Ser Pro Ala Glu Asp Thr Gln Asp Ser Pro Ala
 140 145 150
 Ile Arg Val Leu Ala Ser Asp Gly His Ile Pro Ser Glu Gln Pro
 155 160 165
 Gly Asp Gly Ala Ser Gln Gly Leu Gly Ser Cys His Trp Asp Phe
 170 175 180
 Arg Asn Arg Pro His Pro Phe Arg Ala Arg Ile Thr Tyr Trp Gly
 185 190 195
 Gln Arg Leu Arg Met Ser Leu Asn Ser Gly Leu Thr Pro Ser Asp
 200 205 210

Pro	Asp	Asp	His	Asp	Val	Leu	Ser	Phe	Leu	Thr	Phe	Ser	Leu	Ser	
				215					220					225	
Glu	Pro	Ser	Pro	Glu	Val	Pro	Pro	Gln	Pro	Phe	Leu	Glu	Met	Gln	
				230					235					240	
Gln	Leu	Arg	Leu	Ala	Arg	Gln	Leu	Glu	Gly	Leu	Trp	Ala	Arg	Leu	
				245					250					255	
Gly	Leu	Gly	Thr	Arg	Glu	Asp	Val	Thr	Pro	Lys	Ser	Asp	Ser	Glu	
				260					265					270	
Ala	Gln	Gly	Glu	Gly	Glu	Arg	Leu	Phe	Asp	Leu	Glu	Glu	Thr	Leu	
				275					280					285	
Gly	Arg	His	Arg	Arg	Ile	Leu	Gln	Ala	Leu	Arg	Gly	Leu	Ser	Lys	
				290					295					300	
Gln	Leu	Ala	Gln	Ala	Glu	Arg	Gln	Trp	Lys	Lys	Gln	Leu	Gly	Pro	
				305					310					315	
Pro	Gly	Gln	Ala	Arg	Pro	Asp	Gly	Gly	Trp	Ala	Leu	Asp	Ala	Ser	
				320					325					330	
Cys	Gln	Ile	Pro	Ser	Thr	Pro	Gly	Arg	Gly	Gly	His	Leu	Ser	Met	
				335					340					345	
Ser	Leu	Asn	Lys	Asp	Ser	Ala	Lys	Val	Gly	Ala	Leu	Leu	His	Gly	
				350					355					360	
Gln	Trp	Thr	Leu	Leu	Gln	Ala	Leu	Gln	Glu	Met	Ser	Arg	Gln	Glu	
				365					370					375	
Leu	Asn	Lys	Ser	Leu	Gln	Glu	Cys	Leu	Ser	Thr	Gly	Ser	Leu	Pro	
				380					385					390	
Leu	Gly	Pro	Ala	Pro	His	Thr	Pro	Arg	Ala	Leu	Gly	Ile	Leu	Met	
				395					400					405	
Arg	Gln	Pro	Leu	Pro	Ala	Ser	Met	Pro	Ala						
				410					415						

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<220>
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 <223> Incyte ID No: 7514864CD1

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Met	Ala	Ala	Ala	Met	Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu	
1				5					10					15	
Gly	Pro	Gly	Gly	Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu	
				20					25					30	
Arg	Glu	Glu	Leu	Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala	
				35					40					45	
Ala	Thr	Phe	Gln	Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg	
				50					55					60	
Glu	Gly	Gly	Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu	Phe	His	
				65					70					75	
Thr	Ser	Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val	Cys	Arg	
				80					85					90	
Asn	Ala	Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln	Thr	Leu	
				95					100					105	
Ser	Val	Val	Phe	Asp	Ala	Phe	Ile	Ala	Gly	Gln	Gly	Lys	Lys	Asp	
				110					115					120	
Trp	Ser	Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	
				125					130					135	
Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr	Thr	Tyr	
				140					145					150	
Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro	Thr	Thr	
				155					160					165	
Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr	Ala	Ile	
				170					175					180	

Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg	Asn	Leu
				185					190					195
Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu	Ala	Pro
				200					205					210
Pro	Val	Pro	Phe	Leu	Arg	Ala	Gln	Arg	Tyr	Val	Ser	Gly	Tyr	Gly
				215					220					225
Leu	Gln	Lys	Gly	Glu	Leu	Ser	Thr	Leu	Leu	Tyr	Asn	Thr	His	Pro
				230					235					240
Tyr	Arg	Ala	Phe	Pro	Val	Leu	Leu	Leu	Asp	Thr	Val	Pro	Trp	Tyr
				245					250					255
Leu	Arg	Leu	Tyr	Val	His	Thr	Leu	Thr	Ile	Thr	Ser	Lys	Gly	Lys
				260					265					270
Glu	Asn	Lys	Pro	Ser	Tyr	Ile	His	Tyr	Gln	Pro	Ala	Gln	Asp	Arg
				275					280					285
Leu	Gln	Pro	His	Leu	Leu	Glu	Met	Leu	Ile	Gln	Leu	Pro	Ala	Asn
				290					295					300
Ser	Val	Thr	Lys	Val	Ser	Ile	Gln	Phe	Glu	Arg	Ala	Leu	Leu	Lys
				305					310					315
Trp	Thr	Glu	Tyr	Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr	Val	Ser
				320					325					330
Pro	Ser	Val	Leu	Ser	Ala	Leu	Val	Pro	Ser	Met	Val	Ala	Ala	Lys
				335					340					345
Pro	Val	Asp	Trp	Glu	Glu	Ser	Pro	Leu	Phe	Asn	Ser	Leu	Phe	Pro
				350					355					360
Val	Ser	Asp	Gly	Ser	Asn	Tyr	Phe	Val	Arg	Leu	Tyr	Thr	Glu	Pro
				365					370					375
Leu	Leu	Val	Asn	Leu	Pro	Thr	Pro	Asp	Phe	Ser	Met	Pro	Tyr	Asn
				380					385					390
Val	Ile	Cys	Leu	Thr	Cys	Thr	Val	Val	Ala	Val	Cys	Tyr	Gly	Ser
				395					400					405
Phe	Tyr	Asn	Leu	Leu	Thr	Arg	Thr	Phe	His	Ile	Glu	Glu	Pro	Arg
				410					415					420
Thr	Gly	Gly	Leu	Ala	Lys	Arg	Leu	Ala	Asn	Leu	Ile	Arg	Arg	Ala
				425					430					435
Arg	Gly	Val	Pro	Pro	Leu									
				440										

<210> 12
 <211> 283
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 8266965CD1

<400> 12														
Met	Thr	Gln	Leu	Lys	Glu	Ala	Ala	Ile	Gly	Val	Leu	Val	Leu	Ser
1				5					10					15
Trp	Tyr	Pro	Pro	Gly	Met	Ala	Asp	Asp	Asn	Gly	Glu	Pro	Ser	Asp
				20					25					30
Asp	Leu	Val	Pro	Ala	Ile	Leu	Asp	Thr	Ala	His	Gln	Tyr	Ser	Ile
				35					40					45
Gln	Val	Ala	Phe	His	Ile	Gln	Pro	Tyr	Lys	Gly	Arg	Asp	Asp	Ile
				50					55					60
Thr	Val	His	Asp	Asn	Ile	Lys	Tyr	Ile	Ile	Asp	Thr	Tyr	Gly	Ser
				65					70					75
His	Gly	Ala	Phe	Tyr	Arg	Tyr	Lys	Asn	Ser	Met	Gly	Lys	Ser	Leu
				80					85					90
Pro	Leu	Phe	Tyr	Ile	Tyr	Asp	Ser	Tyr	Leu	Thr	Ser	Pro	Glu	Ala
				95					100					105
Trp	Ala	His	Leu	Leu	Thr	Pro	Asn	Gly	Pro	His	Ser	Ile	Arg	Asn
				110					115					120

Thr	Pro	Tyr	Asp	Gly	Val	Phe	Ile	Ala	Leu	Leu	Val	Glu	Glu	Gly	
				125					130					135	
His	Thr	His	Asp	Ile	Leu	Ala	Ala	Gly	Phe	Asp	Gly	Met	Tyr	Thr	
				140					145					150	
Tyr	Phe	Ala	Ser	Asn	Gly	Phe	Ser	Phe	Gly	Ser	Ser	His	Gln	Asn	
				155					160					165	
Trp	Lys	Ala	Val	Lys	Asn	Phe	Cys	Asp	Ala	Asn	Asn	Leu	Met	Phe	
				170					175					180	
Ile	Pro	Ser	Val	Gly	Pro	Gly	Tyr	Ile	Asp	Thr	Ser	Ile	Arg	Pro	
				185					190					195	
Trp	Asn	Asn	His	Asn	Thr	Arg	Asn	Arg	Val	Asn	Gly	Lys	Tyr	Tyr	
				200					205					210	
Glu	Thr	Ala	Leu	Gln	Ala	Ala	Leu	Thr	Val	Arg	Pro	Glu	Ile	Val	
				215					220					225	
Ser	Ile	Thr	Ser	Phe	Asn	Glu	Trp	His	Glu	Gly	Thr	Gln	Ile	Glu	
				230					235					240	
Lys	Ala	Ile	Pro	Lys	Lys	Thr	Pro	Thr	Arg	Leu	Tyr	Leu	Asp	Tyr	
				245					250					255	
Leu	Pro	His	Gln	Pro	Ser	Leu	Tyr	Leu	Glu	Leu	Thr	Arg	Arg	Trp	
				260					265					270	
Ala	Glu	His	Phe	Ile	Lys	Glu	Lys	Glu	Gln	Trp	Leu	Met			
				275					280						

<210> 13
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7515124CD1

<400> 13															
Met	Ser	Ala	Leu	Trp	Leu	Leu	Leu	Gly	Leu	Leu	Ala	Leu	Met	Gly	
1				5					10					15	
Val	Arg	Ala	Ser	Glu	Arg	Leu	Ala	Glu	Ile	Asp	Met	Pro	Tyr	Leu	
				20					25					30	
Leu	Lys	Tyr	Gln	Pro	Met	Met	Gln	Thr	Ile	Gly	Gln	Lys	Tyr	Cys	
				35					40					45	
Met	Asp	Pro	Ala	Val	Ile	Ala	Gly	Val	Leu	Ser	Arg	Lys	Ser	Pro	
				50					55					60	
Gly	Asp	Lys	Ile	Leu	Val	Asn	Met	Gly	Asp	Arg	Thr	Ser	Met	Val	
				65					70					75	
Gln	Asp	Pro	Gly	Ser	Gln	Ala	Pro	Thr	Ser	Trp	Ile	Ser	Glu	Ser	
				80					85					90	
Gln	Val	Ser	Gln	Thr	Thr	Glu	Val	Leu	Thr	Thr	Arg	Ile	Lys	Glu	
				95					100					105	
Ile	Gln	Arg	Arg	Phe	Pro	Thr	Trp	Thr	Pro	Asp	Gln	Tyr	Leu	Arg	
				110					115					120	
Gly	Gly	Leu	Cys	Ala	Tyr	Ser	Gly	Gly	Ala	Gly	Tyr	Val	Arg	Ser	
				125					130					135	
Ser	Gln	Asp	Leu	Ser	Cys	Asp	Phe	Cys	Asn	Asp	Val	Leu	Ala	Arg	
				140					145					150	
Ala	Lys	Tyr	Leu	Lys	Arg	His	Gly	Phe							
				155											

<210> 14
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 7514570CD1

<400> 14

Met	His	Asp	Ser	Asn	Asn	Val	Glu	Lys	Asp	Ile	Thr	Pro	Ser	Glu	
1				5					10					15	
Leu	Pro	Ala	Asn	Pro	Ala	Ile	Arg	Ala	Asn	Cys	His	Gln	Glu	Pro	
				20					25					30	
Ser	Val	Cys	Leu	Gln	Ala	Ala	Cys	Pro	Glu	Ser	Trp	Ile	Gly	Phe	
				35					40					45	
Gln	Arg	Lys	Cys	Phe	Tyr	Phe	Ser	Asp	Asp	Thr	Lys	Asn	Trp	Thr	
				50					55					60	
Ser	Ser	Gln	Arg	Phe	Cys	Asp	Ser	Gln	Asp	Ala	Asp	Leu	Ala	Gln	
				65					70					75	
Val	Glu	Ser	Phe	Gln	Glu	Leu	Asn	Phe	Leu	Leu	Arg	Tyr	Lys	Gly	
				80					85					90	
Pro	Ser	Asp	His	Trp	Ile	Gly	Leu	Ser	Arg	Glu	Gln	Gly	Gln	Pro	
				95					100					105	
Trp	Lys	Trp	Ile	Asn	Gly	Thr	Glu	Trp	Thr	Arg	Gln	Phe	Pro	Ile	
				110					115					120	
Leu	Gly	Ala	Gly	Glu	Cys	Ala	Tyr	Leu	Asn	Asp	Lys	Gly	Ala	Ser	
				125					130					135	
Ser	Ala	Arg	His	Tyr	Thr	Glu	Arg	Lys	Trp	Ile	Cys	Ser	Lys	Ser	
				140					145					150	
Asp	Ile	His	Val												

<210> 15

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7515114CD1

<400> 15

Met	Pro	Ala	Val	Ser	Gly	Pro	Gly	Pro	Leu	Phe	Cys	Leu	Leu	Leu	
1				5					10					15	
Leu	Leu	Leu	Asp	Pro	His	Ser	Pro	Glu	Thr	Gly	Cys	Pro	Pro	Leu	
				20					25					30	
Arg	Arg	Phe	Glu	Tyr	Lys	Leu	Ser	Phe	Lys	Gly	Pro	Arg	Leu	Ala	
				35					40					45	
Leu	Pro	Gly	Ala	Gly	Ile	Pro	Phe	Trp	Ser	His	His	Gly	Asp	Ala	
				50					55					60	
Ile	Leu	Gly	Leu	Glu	Glu	Val	Arg	Leu	Thr	Pro	Ser	Met	Arg	Asn	
				65					70					75	
Arg	Ser	Gly	Ala	Val	Trp	Ser	Arg	Ala	Ser	Val	Pro	Phe	Ser	Ala	
				80					85					90	
Trp	Glu	Val	Glu	Val	Gln	Met	Arg	Val	Thr	Gly	Leu	Gly	Arg	Arg	
				95					100					105	
Gly	Ala	Gln	Gly	Met	Ala	Val	Trp	Tyr	Thr	Arg	Gly	Arg	Gly	His	
				110					115					120	
Val	Gly	Ser	Val	Leu	Gly	Gly	Leu	Ala	Ser	Trp	Asp	Gly	Ile	Gly	
				125					130					135	
Ile	Phe	Phe	Asp	Ser	Pro	Ala	Glu	Asp	Thr	Gln	Asp	Ser	Pro	Ala	
				140					145					150	
Ile	Arg	Val	Leu	Ala	Ser	Asp	Gly	His	Ile	Pro	Ser	Glu	Gln	Pro	
				155					160					165	
Gly	Asp	Gly	Ala	Ser	Gln	Gly	Leu	Gly	Ser	Cys	His	Trp	Asp	Phe	
				170					175					180	
Arg	Asn	Arg	Pro	His	Pro	Phe	Arg	Ala	Arg	Ile	Thr	Tyr	Trp	Gly	
				185					190					195	
Gln	Arg	Leu	Arg	Met	Ser	Leu	Asn	Ser	Gly	Leu	Thr	Pro	Ser	Asp	

Pro Gly Glu Phe	200	205	210
Cys Val Asp Val Gly		Pro Leu Leu Leu Val	Pro
215		220	225
Gly Gly Phe Phe		Thr Gly Thr Leu Ala	Gly
230		235	240
Glu Asp Pro Thr		Gln Pro Phe Leu Glu	Met
245		250	255
Gln Gln Leu Arg		Glu Gly Leu Trp Ala	Arg
260		265	270
Leu Gly Leu Gly		Thr Pro Lys Ser Asp	Ser
275		280	285
Glu Ala Gln Gly		Phe Asp Leu Glu Glu	Thr
290		295	300
Leu Gly Arg His		Ala Leu Arg Gly Leu	Ser
305		310	315
Lys Gln Leu Ala		Trp Lys Lys Gln Leu	Gly
320		325	330
Pro Pro Gly Gln		Gly Trp Ala Leu Asp	Ala
335		340	345
Ser Cys Gln Ile		Arg Gly Gly His Leu	Ser
350		355	360
Met Ser Leu Asn		Val Gly Ala Leu Leu	His
365		370	375
Gly Gln Trp Thr		Gln Glu Met Ser Arg	Gln
380		385	390
Glu Leu Asn Lys		Leu Ser Thr Gly Ser	Leu
395		400	405
Pro Leu Gly Pro		Arg Ala Leu Gly Ile	Leu
410		415	420
Arg Arg Gln Pro		Pro Ala	
425		430	

<210> 16
 <211> 442
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7515136CD1

<400> 16

Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu	
1 5 10 15	
Leu Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu	
20 25 30	
Arg Arg Phe Glu Tyr Lys Leu Ser Phe Lys Gly Pro Arg Leu Ala	
35 40 45	
Leu Pro Gly Ala Gly Ile Pro Phe Trp Ser His His Gly Asp Ala	
50 55 60	
Ile Leu Gly Leu Glu Val Arg Leu Thr Pro Ser Met Arg Asn	
65 70 75	
Arg Ser Gly Ala Val Trp Ser Arg Ala Ser Val Pro Phe Ser Ala	
80 85 90	
Trp Glu Val Glu Val Gln Met Arg Val Thr Gly Leu Gly Arg Arg	
95 100 105	
Gly Ala Gln Gly Met Ala Val Trp Tyr Thr Arg Gly Arg Gly His	
110 115 120	
Val Gly Ser Val Leu Gly Gly Leu Ala Ser Trp Asp Gly Ile Gly	
125 130 135	
Ile Phe Phe Asp Ser Pro Ala Glu Asp Thr Gln Asp Ser Pro Ala	
140 145 150	
Ile Arg Val Leu Ala Ser Asp Gly His Ile Pro Ser Glu Gln Pro	

	155		160		165
Gly Asp Gly Ala Ser	Gln Gly Leu Gly	Ser Cys His Trp Asp	Phe		
170	175				
Arg Asn Arg Pro His	Pro Phe Arg Ala	Arg Ile Thr Tyr Trp	Gly		
185	190				
Gln Arg Leu Arg Met	Ser Leu Asn Ser	Gly Leu Thr Pro Ser	Asp		
200	205				
Pro Gly Glu Phe Cys	Val Asp Val Gly	Pro Leu Leu Leu Val	Pro		
215	220				
Gly Gly Phe Phe Gly	Val Ser Ala Ala	Thr Gly Thr Leu Ala	Asp		
230	235				
Asp His Asp Val Leu	Ser Phe Leu Thr	Phe Ser Leu Ser Glu	Pro		
245	250				
Ser Pro Glu Val Pro	Pro Gln Pro Phe	Leu Glu Met Gln Gln	Leu		
260	265				
Arg Leu Ala Arg Gln	Leu Glu Gly Leu	Trp Ala Arg Leu Gly	Leu		
275	280				
Gly Thr Arg Glu Asp	Val Thr Pro Lys	Ser Asp Ser Glu Ala	Gln		
290	295				
Gly Glu Gly Glu Arg	Leu Phe Asp Leu	Glu Glu Thr Leu Gly	Arg		
305	310				
His Arg Arg Ile Leu	Gln Ala Leu Arg	Gly Leu Ser Lys Gln	Leu		
320	325				
Ala Gln Ala Glu Arg	Gln Trp Lys Lys	Gln Leu Gly Pro Pro	Gly		
335	340				
Gln Ala Arg Pro Asp	Gly Gly Trp Ala	Leu Asp Ala Ser Cys	Gln		
350	355				
Ile Pro Ser Thr Pro	Gly Arg Gly Gly	His Leu Ser Met Ser	Leu		
365	370				
Asn Lys Asp Ser Ala	Lys Val Gly Ala	Leu Leu His Gly Gln	Trp		
380	385				
Thr Leu Leu Arg Ala	Leu Gln Glu Met	Arg Gln Glu Leu Asn	Lys		
395	400				
Ser Leu Gln Glu Cys	Leu Ser Thr Gly	Ser Leu Pro Leu Gly	Pro		
410	415				
Ala Pro His Thr Pro	Arg Ala Leu Gly	Ile Leu Arg Arg Gln	Pro		
425	430				
Leu Pro Ala Ser Met	Pro Ala				
440					

<210> 17
 <211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7515308CD1

<400> 17

Met Thr Ser Glu Ile Thr Tyr Ala Glu Val Arg Phe Lys Asn Glu	
1 5 10 15	
Phe Lys Ser Ser Gly Ile Asn Thr Ala Ser Ser Ala Val Phe Phe	
20 25 30	
Gln Lys Tyr Ser Gln Leu Leu Glu Lys Lys Thr Thr Lys Glu Leu	
35 40 45	
Val His Thr Thr Leu Glu Cys Val Lys Lys Asn Met Pro Val Glu	
50 55 60	
Glu Thr Ala Trp Ser Cys Cys Pro Lys Asn Trp Lys Ser Phe Ser	
65 70 75	
Ser Asn Cys Tyr Phe Ile Ser Thr Glu Ser Ala Ser Trp Gln Asp	
80 85 90	
Ser Glu Lys Asp Cys Ala Arg Met Glu Ala His Leu Leu Val Ile	

	95		100		105
Asn Thr Gln Glu	Glu Gln Asp Phe Ile	Phe Gln Asn Leu Gln	Glu		
	110		115		120
Glu Ser Ala Tyr	Phe Val Gly Leu Ser	Asp Pro Glu Gly Gln	Arg		
	125		130		135
His Trp Gln Trp	Val Asp Gln Thr Pro	Tyr Asn Glu Ser Ser	Ala		
	140		145		150
Phe Trp His Pro	Arg Glu Pro Ser Asp	Pro Asn Glu Arg Cys	Val		
	155		160		165
Val Leu Asn Phe	Arg Lys Ser Pro Lys	Arg Trp Gly Trp Asn	Asp		
	170		175		180
Val Asn Cys Leu	Gly Pro Gln Arg Ser	Val Cys Glu Met Met	Lys		
	185		190		195
Ile His Leu					

<210> 18
 <211> 336
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7516738CD1

<400> 18	
Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro	
1 5 10 15	
Leu Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr	
20 25 30	
Met Pro Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser	
35 40 45	
Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg	
50 55 60	
Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala	
65 70 75	
Gly Met Pro Gly Gln Ala Gly Pro Val Gly Pro Lys Gly Asp Asn	
80 85 90	
Gly Ser Val Gly Glu Pro Gly Pro Lys Gly Asp Thr Gly Pro Ser	
95 100 105	
Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg	
110 115 120	
Gly Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg	
125 130 135	
Gly Val Pro Gly Asn Ala Gly Ala Ala Gly Ser Ala Gly Ala Met	
140 145 150	
Gly Pro Gln Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys	
155 160 165	
Gly Asp Lys Gly Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser	
170 175 180	
Gly Leu Pro Asp Val Ala Ser Leu Arg Gln Gln Val Glu Ala Leu	
185 190 195	
Gln Gly Gln Val Gln His Leu Gln Ala Ala Phe Ser Gln Tyr Lys	
200 205 210	
Lys Val Glu Leu Phe Pro Asn Gly Gln Ser Val Gly Glu Lys Ile	
215 220 225	
Phe Lys Thr Ala Gly Phe Val Lys Pro Phe Thr Glu Ala Gln Leu	
230 235 240	
Leu Cys Thr Gln Ala Gly Gly Gln Leu Ala Ser Pro Arg Ser Ala	
245 250 255	
Ala Glu Asn Ala Ala Leu Gln Gln Leu Val Val Ala Lys Asn Glu	
260 265 270	
Ala Ala Phe Leu Ser Met Thr Asp Ser Lys Thr Glu Gly Lys Phe	

Thr Tyr Pro Thr	275		280		285
Gly Glu Ser Leu Val		Tyr Ser Asn Trp Ala		Pro	
	290		295		300
Gly Glu Pro Asn Asp		Gly Gly Ser		Glu Asp Cys Val Glu	Ile
	305		310		315
Phe Thr Asn Gly Lys		Trp Asn Asp Arg		Ala Cys Gly Glu Lys	Arg
	320		325		330
Leu Val Val Cys Glu		Phe			
	335				

<210> 19
 <211> 258
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7518619CD1

<400> 19

Met Met Leu Ser Leu	Asn Asn Leu Gln	Asn Ile Ile Tyr Asn	Pro
1	5	10	15
Val Ile Pro Tyr Val	Gly Thr Ile Pro	Asp Gln Leu Asp	Pro Gly
	20	25	30
Thr Leu Ile Val Ile	Cys Gly His Val	Pro Ser Asp Ala	Asp Arg
	35	40	45
Phe Gln Val Asp Leu	Gln Asn Gly Ser	Ser Val Lys Pro	Arg Ala
	50	55	60
Asp Val Ala Phe His	Phe Asn Pro Arg	Phe Lys Arg Ala	Gly Cys
	65	70	75
Ile Val Cys Asn Thr	Leu Ile Asn Glu	Lys Trp Gly Arg	Glu Glu
	80	85	90
Ile Thr Tyr Asp Thr	Pro Phe Lys Arg	Glu Lys Ser Phe	Glu Ile
	95	100	105
Val Ile Met Val Leu	Lys Asp Lys Phe	Gln Val Pro Lys	Ser Gly
	110	115	120
Thr Pro Gln Leu Ser	Leu Pro Phe Ala	Ala Arg Leu Asn	Thr Pro
	125	130	135
Met Gly Pro Gly Arg	Thr Val Val Val	Lys Gly Glu Val	Asn Ala
	140	145	150
Asn Ala Lys Ser Phe	Asn Val Asp Leu	Leu Ala Gly Lys	Ser Lys
	155	160	165
Asp Ile Ala Leu His	Leu Asn Pro Arg	Leu Asn Ile Lys	Ala Phe
	170	175	180
Val Arg Asn Ser Phe	Leu Gln Glu Ser	Trp Gly Glu Glu	Glu Arg
	185	190	195
Asn Ile Thr Ser Phe	Pro Phe Ser Pro	Gly Met Tyr Phe	Glu Met
	200	205	210
Ile Ile Tyr Cys Asp	Val Arg Glu Phe	Lys Val Ala Val	Asn Gly
	215	220	225
Val His Ser Leu Glu	Tyr Lys His Arg	Phe Lys Glu Leu	Ser Ser
	230	235	240
Ile Asp Thr Leu Glu	Ile Asn Gly Asp	Ile His Leu Leu	Glu Val
	245	250	255
Arg Ser Trp			

<210> 20
 <211> 132
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 7513061CD1

<400> 20

Met	Ala	Gln	Thr	Asn	Ser	Phe	Phe	Met	Leu	Ile	Ser	Ser	Leu	Met
1				5					10					15
Phe	Leu	Ser	Leu	Ser	Gln	Gly	Gln	Glu	Ser	Gln	Thr	Glu	Leu	Pro
				20					25					30
Asn	Pro	Arg	Ile	Ser	Cys	Pro	Glu	Gly	Thr	Asn	Ala	Tyr	Arg	Ser
				35					40					45
Tyr	Cys	Tyr	Tyr	Phe	Asn	Glu	Asp	Pro	Glu	Thr	Trp	Val	Asp	Ala
				50					55					60
Asp	Leu	Tyr	Cys	Gln	Asn	Met	Asn	Ser	Gly	Asn	Leu	Val	Ser	Val
				65					70					75
Leu	Thr	Gln	Ala	Glu	Gly	Ala	Phe	Val	Ala	Ser	Leu	Ile	Lys	Glu
				80					85					90
Ser	Ser	Thr	Asp	Asp	Ser	Asn	Val	Trp	Ile	Gly	Leu	His	Asp	Pro
				95					100					105
Lys	Lys	Asp	Ser	Arg	Asn	Gly	Arg	Met	Asn	Leu	Val	Arg	Arg	Ser
				110					115					120
Ser	Pro	Leu	Phe	Ala	Ser	Ser	Lys	Thr	Arg	Gly	Ser			
				125					130					

<210> 21
<211> 1143
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 7521032CB1

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<210> 22
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<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 2936048CB1

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<210> 23
<211> 1123
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7521726CB1

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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7523383CB1

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<210> 25
 <211> 1418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7522027CB1

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<210> 26

<211> 2076

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524406CB1

<400> 26

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<210> 27

<211> 783

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524922CB1

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<210> 28
<211> 1115
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7524936CB1

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<210> 29
<211> 528
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 7512039CB1

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ggatttgtga aatggttagga ataaatcctt tgaacaaagg aaaatctctt taagaacaga 480
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<210> 30
<211> 1365
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7512576CB1

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<210> 31
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<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<210> 33
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7515124CB1

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gcagccagga	cctgagctgt	gacttctgca	atgatgtcct	tgcacgagcc	aagtacctca	480
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 <211> 924
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7514570CB1

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agaacaaggc	caaccatgga	aatggataaa	tggtactgaa	tggaacaagac	agtttcctat	360
cctgggagca	ggagagtgtg	cctatttgaa	tgacaaagg	gccagtagtg	ccaggcacta	420
cacagagagg	aagtggattt	gttccaaatc	agatatacat	gtctagatgt	tacagcaaag	480
ccccaaactaa	ttcctagaag	catattggaa	ctgataactc	cattttaaaa	tgagcaaaga	540
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aaagtcatgt	cttatgtggt	ggcaggcagg	gggacttggt	cacaggaact	cctatttata	840
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<210> 35
 <211> 1346
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 7515114CB1

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tacaccgggg	gcaggggcca	tgtaggctct	gtccttgggg	ggctggcttc	gtgggacggc	420
atcgggatct	tctttgactc	tccggcagag	gatactcagg	acagtcctgc	catccgtgtg	480
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ctccatggac agtggactct gctccaggcc ctgcaagaga tgagcaggca ggagctgaac 1200
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cccaggggccc tggggattct gaggaggcag cctctccctg ccagcatgcc tgcctgacce 1320
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<210> 36
<211> 1379
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7515136CB1

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<400> 36
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<210> 37
<211> 999
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7515308CB1

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<400> 37
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cctctctctg agttttcttt caaaaatatt ctgagcttct tgaaaaaag actacaaaag 180
agctggttca tacaacattg gagtgtgtga aaaaaaatat gccctggaa gagacagcct 240
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<210> 38
<211> 1072
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7516738CB1

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<400> 38
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<210> 39
<211> 872
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7518619CB1

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<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 7513061CB1

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